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ENGINEERING CHANGE PROPOSAL (ECP), PAGE 1  1. DATE (YYMMDD) 20021210						Form Approv OMB No. 070				
		I to average 2 hours per response, inclui Send comments regarding this burden ex								
and Budget, Paperwork Reduction Pro	xiect (0704-0188) Washington, I	DC 20503.	ons, 1215 Jenerson u	avis Highway,	Suite 1204, Arlington, VA 222	02-4302, and	to the Office of Managem	DOO =		2
PLEASE DO NOT RETUR	N YOUR COMPLETE	D FORM TO EITHER OF TH	ESE ADDRES	SES. RET	JRN COMPLETED FO	ORM TO	THE GOVERNMEN		000	<u>၁</u>
	OFFICER FOR THE CO	ONTRACT/PROCURING ACT			NITEM 2 OF THIS FO	RM.		3. DODAAC		
4. ORIGINATOR		b. ADDRESS (Street, o	City, State, Zip	Code)		5. CLA	SS OF ECP		_	
a. TYPED NAME (First, Middle Initial, Last)  TACOM-ARDEC, AMSTA-AR-FSA-RF			<u> </u>		l					
Douglas A	. Lincoln	ROCK ISLAN	ND, IL. 61:	299-73	00	6. JUS	T. CODE	7. PRIORITY		
8. ECP DESIGNATION						O DAG	D ELINE AFFECTE	R		
a. MODEL/TYPE	b. CAGE CODE	c. SYSTEM DESIGNA	TION			J. DAG	FUNCTIONAL		DUCT	
M67	19200	M67 GRENA	NDE & M2	13/M2	28 FUZE		ALLOCATED		0001	
d. ECP NO.	<b>-</b> 1.00		e. T		f. REV	10. OT	HER SYS/CONFI	. ITEMS AFFEC	TED	
	DL20023	345		F			YES	X NO		
11. SPECIFICATIONS AF		r	· · · · · · · · · · · · · · · · · · ·		12. DRAWINGS AI	FECTE	)			
a. SYSTEM	CAGE Code	Specification/Document		. SCN	CAGE Code		Number		Rev.	NOR
b. DEVELOPMENT		MIL-G-14933A Amo	13				2131	<del> </del>		
c. PRODUCT		DTL9235210		-		923	5210		ļ	ļ
13. TITLE OF CHANGE		DTL8822131	<u>l</u>			L			<u> </u>	
	Grenade docum	ents to reflect latest re	auiremente	and im	niementation of	new A	Yl Y-Pay aquir	ment at MEI		
14. CONTRACT NO. LINE	ITEM				NG CONTRACTING			illett at MEL.		
DAAA09-02-C-	-0012 & DAA	\09-99-G-0004 DO	<del></del>		t, Middle Initial, Last)			ene Harrison		
			b. Co		, , ,		c. TELEPHONE N		3191	
16. CONFIGURATION ITE	M NOMENCLATURE					<u>-</u>		17. IN PRODU		
GRENADE ASSY		8 Fuze						X YES		NO
a. NOMENCLATURE	TEMS AFFECTED			T:						
GRENADE ASSY	M67 & M219/M22	Q Euza			RT NO. I <b>L-G-14933</b>		c. NSN			
19. DESCRIPTION OF CH		0 1 026		IVI	IL-G-14933					
Change Delay definition of a below the safe	void by desci	delay time FROI ribing an accepta econds.	M: 5.5 +/· ble minin	· .5 T( num s	D: 5.5 to 6.2 ize which do	. Ades no	ded to DTL tallow the	s and MiL uze delay	SPEC	330°C
20. NEED FOR CHANGE										ğ
This change a	illows for the	use of new auto	omatic Di	gital X	-Ray inspect	tion e	quipment p	roduced b	v AXI	and
This change allows for the use of new automatic Digital X-Ray inspection equipment produced by AXI and installed at MEI. The equipment detects casting voids presence in the zinc body, normally up to .03" in diameter, that was previously not detectable. Without some allowable void size, all product manufactured by MEI would be rejected. Phase I and II testing and testing at AXI, performed in partnership between MEI and the Government was utilized to arrive at this new void size standard. (For further detail see attached reports.)										
21. PRODUCTION EFFECT	IIVIII DI SERIAL N	IUMBER		22. EF	FECT ON PRODUC	TION DE	LIVERY SCHEDU	.E		
23. RETROFIT										
a. RECOMMENDED ITEM EFFECTIVITY b.				b. SHIP / VEHICLE CLASS AFFECTED  N/A						
c. ESTIMATED KIT DELIVERY SCHEDULE  d. LOCATIONS OR SHIP / VEHICLE NUMBERS AFFECTED										
A FATHATED CORE (AANWACAN)										
N/A N/A										
a. AUTHORIZED SIGNAT	URE Sough	M Xmin	h	b. TIT	LE LECTRONICS E	ENGIN	EER			
27. APPROVAL / DISAPPR 1. CLASS I	IUVAL /	b. CLASS II			I - 01 400 !!					
APPROVAL RECOMMENDED	DISAPPROVAL RECOMMENDED	APPROVED	DISAF	PROVED	C. CLASS II	ASSIFI-		DO NOT CONCURING	LASSi-	
I. GOVERNMENT ACTIVIT TACOM-ARDEC,	Υ		e. SIGNATUI	RE	CATION OF CH	AVIJE	f. DAT	E SIGNED (YYM		
. APPROVAL	h. GOVERNMENT		i. SIGNATUR	=				E CIONED ASS	1/005	
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## **NOR LIST**

DOCUMENT	NOR #
8822131	0001
9235210	0002
DTL 8822131	0003
DTL 9235210	0004
MIL-G-14933	0005

## **REMARKS**

This Engineering Change Proposal (ECP) is written as a result of the Government's effort to replace the Nucleounics inspection equipment installed at Martin Electronics, Inc (MEI) with state-of-the-art digital X-Ray equipment. During the development and testing of this system events occurred that now require the drawings and specifications to change. The delay composition delay time needs to change From: "5.0 to 6.0 seconds per inch" To: "5.5 to 6.2 seconds per inch" because we are now going to have very small allowable voids and cracks in the delay composition, so the increase in time adds a safety factor to continue to keep the fuze delay time above 4.0 seconds. The AXI equipment readily found porosity in the fuze body castings between .02 to .03 inch diameter, therefore it was determined that the allowable void/crack size would need to be larger than .03 inch. So, the DTL's are adding both the definition of a not to exceed void/crack size and porosity in the castings otherwise all product manufactured by MEI would be rejected. This same definition additions are also added to this ECP so the acceptance criteria of the fuzes is the same prior to loading into an M67 Grenade. Several documents are included in this ECP to form a historical record of the recommended changes.

NOTICE THIS REVISION DESCRIBED BELOW HA	Form Approved OMB No. 0704-0188					
The public reporting burden for this collection of information is estimated to a data needed, and completing and reviewing the collection of information. So burden, to Department of Defense, Washington Headquarters Services, Di Respondents should be aware that notwithstanding any other provision of lar control number.	n, including suggestions for reducing the Suite 1204, Arlington, VA 22202-4302. It does not display a currently valid OMB	2. PROCURING ACTIVITY NO. R2G 3003				
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Douglas A. Lincoln	Rock Island, II. 6129		7. CAGE CODE 19200	8. DOCUMENT NO. 8822131		
9. TITLE OF DOCUMENT FUZE, HAND GRENADE M2		10. REVISION LETTER a. CURRENT AA	b. NEW	11. ECP NO.		
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICE FUZE, HAND GRENADE M2	CHECP APPLIES 213 ASSEMBLY			SHT 1 OF 1		
13. DESCRIPTION OF REVISION						
ZONE A-8, NOTE 16, CHA	NGE:					
FROM: "5.5 + OR - 0.5 SE	CONDS"					
TO: "5.5 + 0.7 SECONDS"	,					
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X (1) Existing document supplemented by this NOR may be used in manufacture.  (2) Revised document must be received before manufacturer may incorporate this change.  (3) Custodian of master document shall make above revision and furnish revised document.						
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOV	ERNMENT	d document. c. TYPED NAME (First, Middle Init	al, Last)			
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Douglas A. Lincoln	Rock Island, II. 612	299-7300	7. CAGE CODE 19200	8. DOCUMENT NO. 9235210	
9. TITLE OF DOCUMENT FUZE, HAND GRENADE M2		10. REVISION LETTER a. CURRENT M	b. NEW	11. ECP NO.	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICE FUZE, HAND GRENADE M2	CHECP APPLIES 228 ASSEMBLY			SHT 1 OF 1	
13. DESCRIPTION OF REVISION  ZONE A-8, NOTE 16, CHA	NGE:	The second secon			
FROM: "5.5 + OR - 0.5 SE	CONDS"				
TO: "5.5 + 0.7 SECONDS	"				
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b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOV	nell make ahove revision and furnish revision	ed document.  c. TYPED NAME (First, Middle Initia	al I pet)		
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n TVDCD NAME /First Middle Indial Local	DDRESS (Street, City, State, Zip Code,	•	5. CAGE CODE	6. NOR NO. 0003		
Develop A Lincoln	ACOM-ARDEC, AM		7. CAGE CODE	8. DOCUMENT NO.		
Douglas A. Lilicolli	lock Island, II. 6129	9-7300	19200	DTL 8822131		
9. TITLE OF DOCUMENT DETAIL SPEC FUZE, HAND G		10. REVISION LETTER a. CURRENT	b. NEW	11. ECP NO.		
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH E FUZE, HAND GRENADE M21				SHT 1 OF 2		
13. DESCRIPTION OF REVISION						
DTL 8822131, DATED 24 JU	LY 2001					
PAGE 24, PARAGRAPH 4.3	.2.11, CHANGE:					
FROM: "1 Any crack or TO: "108 Any crack or	porosity in the fu porosity in the fu		% 3.5 4.3.3.° % 3.5 4.3.3.°			
PAGE 25, PARAGRAPH 4.3	.2.12, CHANGE:					
FROM: "10 Delay columr TO: "10 Delay columr	• /	0% 3.3 0% 3.3	4.3.3.3(a)" 4.3.3.3"			
FROM: "2 Safety pin wit	5" 5"					
•	TO: "2 Safety pin withdrawal lower limit (a) (a) 3.8 4.3.3.5"  NOTE: DELETE: "(a) Alternate method of design agency."					
NOTE: CHANGE:						
FDOM: "/h) Con toble 1/ for						
FROM: "(b) See table V for TO: "(a) See table V for	•					
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14. THIS SECTION FOR GOVERNMENT USE ONLY						
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<del>  </del>	(2) Revised document must be received before manufacturer may incorporate this change.  (3) Custodian of master document shall make above revision and furnish revised document.					
b. ACTIVITY AUTHORIZÊD TO APPROVE CHANGE FOR GOVER	NMENT	c. TYPED NAME (First, Midd	lle Initial, Last)			
d. TITLE	e. SIGNATURE			f. DATE SIGNED (YYYYMMDD)		
15.a. ACTIVITY ACCOMPLISHING REVISION	c. DATE SIGNED					

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OUR TRIBUTE PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS ACTIVITY NUMBER LISTED INITIEM 2 OF THIS FORM.							
	. ADDRESS (Street, City, State, Zip Code	)	5. CAGE CODE	6. NOR NO.			
a. TYPED NAME (First, Middle Initial, Last)	TACOM-ARDEC, AN	ISTA-AR-FSA-RF	19200	0003			
	Rock Island, II. 6129	9-7300	7. CAGE CODE 19200	8. DOCUMENT NO. DTL 8822131			
9. TITLE OF DOCUMENT		10. REVISION LETTER		11. ECP NO.			
DETAIL SPEC FUZE, HAND	GRENADE M213	a. CURRENT	b. NEW				
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH FUZE, HAND GRENADE M2				SHT 2 OF 2			
13. DESCRIPTION OF REVISION							
DTL 8822131, DATED 24 J	ULY 2001						
PAGE 41, ADD THE FOLL	OWING:						
"6.12 VOID OR CRACK (CRITICAL DEFECT). This characteristic applies to the delay composition after it has been loaded in accordance with note 2 of drawing 8822131. This Critical I Defect is defined by any inclusion having a volume greater than 3.10x10 <sup>-5</sup> cubic inches in the stem of the Fuze Body, drawing 8822132, or greater than 5.40x10 <sup>-5</sup> cubic inches in the threaded region when using automated Digital X-Ray inspection equipment. Alternatively, this Critical I Defect is defined by any inclusion having an area greater than 1.25x10 <sup>-3</sup> square inches in the stem of the Fuze Body or greater than 1.96x10 <sup>-3</sup> square inches in the threaded region when using hard plate X-Ray equipment for inspection."  "6.13 CRACK OR POROSITY IN THE FUZE BODY(MAJOR DEFECT). This characteristic applies to the fuze body casting outer surface after it has been manufactured in accordance with drawing 8822132. A Crack or Porosity in the fuze body is classified as a Major Defect when any intrusion has either length, width or depth of greater than .02 inches on the outer surface of the fuze body."							
14. THIS SECTION FOR GOVERNMENT USE ONLY							
(1) Existing document supplemented	by this NOR may be used in manufacture.						
(2) Revised document must be received before manufacturer may incorporate this change.  (3) Custodian of master document shall make above revision and furnish revised document.							
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVE		c. TYPED NAME (First, Middle In	lini, Last)	1.7			
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4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	)	5. CAGE CODE	6. NOR NO.
a. TYPED NAME (First, Middle Initial, Last)	TACOM-ARDEC, AM	ISTA-AR-FSA-RF	19200	0004
Douglas A. Lincoln	Rock Island, II. 6129	9-7300	7. CAGE CODE 19200	8. DOCUMENT NO. DTL 9235210
9. TITLE OF DOCUMENT		10. REVISION LETTER	<u></u>	11, ECP NO.
DETAIL SPEC FUZE, HAND	) GRENADE M228	a. CURRENT	b. NEW	11. 201 110.
12. CONFIGURATION ITEM (OR SYSTEM) TO WHI	CH ECP APPLIES		<u> </u>	
FUZE, HAND GRENADE M	228 ASSEMBLY			SHT 1 OF 2
13. DESCRIPTION OF REVISION				
DTL 9235210, DATED 6 A	UG 2001			
PAGE 24, PARAGRAPH 4	I.3.2.11, CHANGE:			
FROM: "1 Anv crack of	· · · · · · · · · · · · · · · · · · ·			-
	or porosity in the fu or porosity in the fu			
PAGE 25, PARAGRAPH 4	I.3.2.12, CHANGE:			
FROM: "10 Delay colur	mn height, min 100	0% 3.3	4 2 2 2 (0)"	
	mn height, min 100		4.3.3.3(a)" 4.3.3.3"	
FROM: "2 Safety pin v	withdrawal lower lim	nit (b) (b)	3.8 4.3.3.5"	ı
	withdrawal lower lim		3.8 4.3.3.5"	
NOTE: DELETE: "(a) Alter	rnate method of	design agency.	"	
NOTE: CHANGE:				
FROM: "(b) See table V fo	r sample size and £	eccent/relect cri	itoria "	
TO: "(a) See table V for	or sample size and a	accent/reject or	ilciia. Lierie ?	
10. (a) 000 table 1	or sample sire and	accepureject or	iteria.	
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PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.			R FOR THE CONTRACT/PROCURIN	3. DODAAC			
	ADDRESS (Street, City, State, Zip Code	)	5. CAGE CODE	6. NOR NO.			
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Douglas A. Lincoln	Rock Island, II. 6129		7. CAGE CODE 19200	8. DOCUMENT NO. DTL 9235210			
9. TITLE OF DOCUMENT		10. REVISION LETTER		11. ECP NO.			
DETAIL SPEC FUZE, HAND		a. CURRENT	b. NEW	1			
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH FUZE, HAND GRENADE M22				SHT 2 OF 2			
DTL 9235210, DATED 6 AUG 2001  PAGE 41, ADD THE FOLLOWING:  "6.12 <u>VOID OR CRACK (CRITICAL DEFECT).</u> This characteristic applies to the delay composition after it has been loaded in accordance with note 2 of drawing 9235210. This Critical I Defect is defined by any inclusion having a volume greater than 3.10x10 <sup>-5</sup> cubic inches in the stem of the Fuze Body, drawing 8822132, or greater than 5.40x10 <sup>-5</sup> cubic inches in the threaded region when using automated Digital X-Ray inspection equipment. Alternatively, this Critical I Defect is defined by any inclusion having an area greater than 1.25x10 <sup>-3</sup> square inches in the stem of the Fuze Body or greater than 1.96x10 <sup>-3</sup> square inches in the threaded region when using hard plate X-Ray equipment for inspection."  "6.13 <u>CRACK OR POROSITY IN THE FUZE BODY(MAJOR DEFECT).</u> This characteristic applies to the fuze body castling outer surface after it has been manufactured in accordance with drawing 8822132. A Crack or Porosity in the fuze body is classified as a Major Defect when any intrusion has either length, width or depth of greater than .02 inches on the outer surface of the fuze body."							
a (Yone)	14. THIS SECTION FOR GOVERNMENT USE ONLY						
(1) Existing document supplemented by this NOR may be used in manufacture.							
(2) Revised document must be received before manufacturer may incorporate this change.  (3) Custodian of master document shell make above revision and turnish revised document.							
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVE	RNMENT	c. TYPED NAMÉ (First, Middle Init	ial, Last)				
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PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.	RETURN COMPLETED FORM TO THE GOVE	FINIMENT IBBUING CONTRACTING OFFICE	ER FOR THE CONTRACT/PROCUFING	3. DODAAC		
	ADDRESS (Street, City, State, Zip Code	9)	5. CAGE CODE	6, NOR NO.		
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Douglas A. Lincoln	Rock Island, II. 6129		7. CAGE CODE 19200	8. DOCUMENT NO. MIL-G-14933 AMD 3		
9. TITLE OF DOCUMENT		10. REVISION LETTER		11. ECP NO.		
MIL SPEC HAND GRENADE		a. CURRENT B	b. NEW			
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH HAND GRENADE M67	ECP APPLIES			SHT 1 OF 2		
13. DESCRIPTION OF REVISION						
PAGE 4, PARAGRAPH 3.8.d CHANGE:  FROM: "d. Voids at bottom of delay column (Major Defect)"  TO: "d. Voids or Cracks in delay column (Critical Defect)"  PAGE 4, PARAGRAPH 3.8.e: DELETE PARAGRAPH IN ITS ENTIRETY.  PAGE 22, PARAGRAPH 6.7.2: DELETE PARAGRAPH IN ITS ENTIRETY.  PAGE 22, PARAGRAPH 6.7.3: DELETE PARAGRAPH IN ITS ENTIRETY AND REPLACE WITH THE FOLLOWING:  "6.7.3 VOID OR CRACK IN DELAY COLUMN(CRITICAL DEFECT). This characteristic applies to the delay composition after it has been loaded in accordance with note 2 of drawing 8822131. This Critical Defect is defined by any inclusion having a volume greater than 3.10x10 <sup>-5</sup> cubic inches in the stem of the Fuze Body, drawing 8822132, or greater than 5.40x10 <sup>-5</sup> cubic inches in the threaded region. Alternatively, this Critical Defect is defined by any inclusion having an area greater than 1.25x10 <sup>-3</sup> square inches in the stem of the Fuze Body or greater than 1.96x10 <sup>-3</sup> square inches in the threaded region when using hard plate X-Ray equipment for inspection."						
PAGE 22, PARAGRAPH 6.7	'.4: DELETE PAR	AGRAPH IN ITS	ENTIRETY.			
14. THIS SECTION FOR GOVERNMENT USE ONLY						
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(2) Revised document must be received before manufacturer may incorporate this change.  (3) Custodian of master document shall make above revision and furnish revised document.						
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVE		c. TYPED NAME (First, Middle In	itiel, Last)			
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12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH EX HAND GRENADE M67	P APPLIES			SHT 2 OF 2		
13. DESCRIPTION OF REVISION						
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